

FIG.1
Related Art

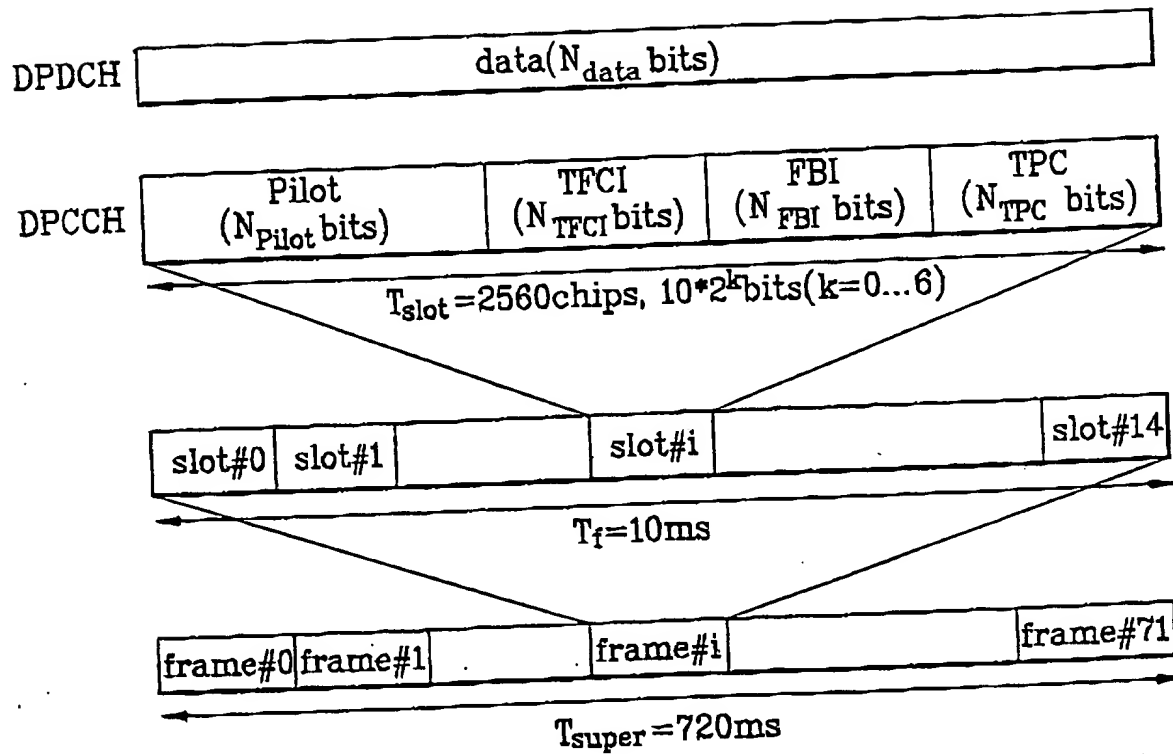


FIG.2
Related Art

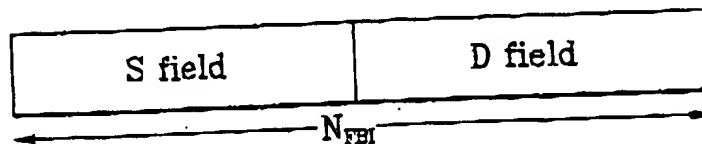


FIG. 3a

Hadarmad codes of 8 bits	Hadarmad codes of 16 bits
$H_{3,0} = 0000\ 0000$	$H_{4,0} = 0000\ 0000\ 0000\ 0000$
	$H_{4,1} = 0101\ 0101\ 0101\ 0101$
$H_{3,1} = 0101\ 0101$	$H_{4,2} = 0011\ 0011\ 0011\ 0011$
	$H_{4,3} = 0110\ 0110\ 0110\ 0110$
$H_{3,2} = 0011\ 0011$	$H_{4,4} = 0000\ 1111\ 0000\ 1111$
	$H_{4,5} = 0101\ 1010\ 0101\ 1010$
$H_{3,3} = 0110\ 0110$	$H_{4,6} = 0011\ 1100\ 0011\ 1100$
	$H_{4,7} = 0110\ 1001\ 0110\ 1001$
$H_{3,4} = 0000\ 1111$	$H_{4,8} = 0000\ 0000\ 1111\ 1111$
	$H_{4,9} = 0101\ 0101\ 1010\ 1010$
$H_{3,5} = 0101\ 0101$	$H_{4,10} = 0011\ 0011\ 1100\ 1100$
	$H_{4,11} = 0110\ 0110\ 1001\ 1001$
$H_{3,6} = 0011\ 1100$	$H_{4,12} = 0000\ 1111\ 1111\ 0000$
	$H_{4,13} = 0101\ 1010\ 1010\ 0101$
$H_{3,7} = 0110\ 1001$	$H_{4,14} = 0011\ 1100\ 1100\ 0011$
	$H_{4,15} = 0110\ 1001\ 1001\ 0110$

FIG. 3b

bi-orthogonal codes of 8 bits	bi-orthogonal codes of 16 bits
B _{3,0} = 0000 0000	B _{4,0} = 0000 0000 0000 0000
B _{3,1} = 1111 1111	B _{4,1} = 1111 1111 1111 1111
B _{3,2} = 0101 0101	B _{4,2} = 0101 0101 0101 0101
B _{3,3} = 1010 1010	B _{4,3} = 1010 1010 1010 1010
B _{3,4} = 0011 0011	B _{4,4} = 0011 0011 0011 0011
B _{3,5} = 1100 1100	B _{4,5} = 1100 1100 1100 1100
B _{3,6} = 0110 0110	B _{4,6} = 0110 0110 0110 0110
B _{3,7} = 1001 1001	B _{4,7} = 1001 1001 1001 1001
B _{3,8} = 0000 1111	B _{4,8} = 0000 1111 0000 1111
B _{3,9} = 1111 0000	B _{4,9} = 1111 0000 1111 0000
B _{3,10} = 0101 1010	B _{4,10} = 0101 1010 0101 1010
B _{3,11} = 1010 0101	B _{4,11} = 1010 0101 1010 0101
B _{3,12} = 0011 1100	B _{4,12} = 0011 1100 0011 1100
B _{3,13} = 1100 0011	B _{4,13} = 1100 0011 1100 0011
B _{3,14} = 0110 1001	B _{4,14} = 0110 1001 0110 1001
B _{3,15} = 1001 0110	B _{4,15} = 1001 0110 1001 0110
	B _{4,16} = 0000 0000 1111 1111
	B _{4,17} = 1111 1111 0000 0000
	B _{4,18} = 0101 0101 1010 1010
	B _{4,19} = 1010 1010 0101 0101
	B _{4,20} = 0011 0011 1100 1100
	B _{4,21} = 1100 1100 0011 0011
	B _{4,22} = 0110 0110 1001 1001
	B _{4,23} = 1001 1001 0110 0110
	B _{4,24} = 0000 1111 1111 0000
	B _{4,25} = 1111 0000 0000 1111
	B _{4,26} = 0101 1010 1010 0101
	B _{4,27} = 1010 0101 0101 1010
	B _{4,28} = 0011 1100 1100 0011
	B _{4,29} = 1100 0011 0011 1100
	B _{4,30} = 0110 1001 1001 0110
	B _{4,31} = 1001 0110 0110 1001

FIG. 4A

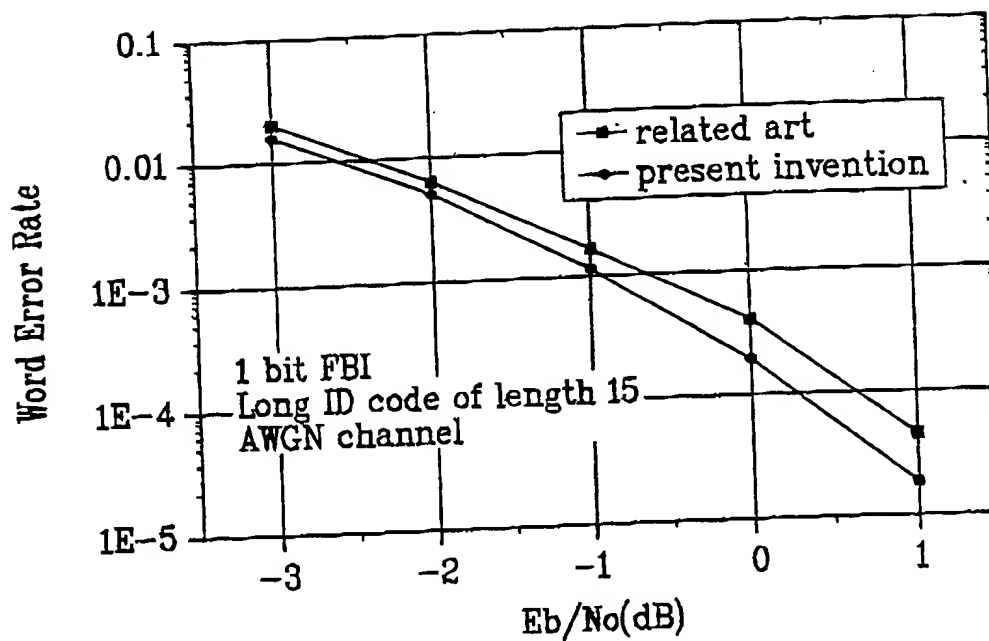


FIG. 4B

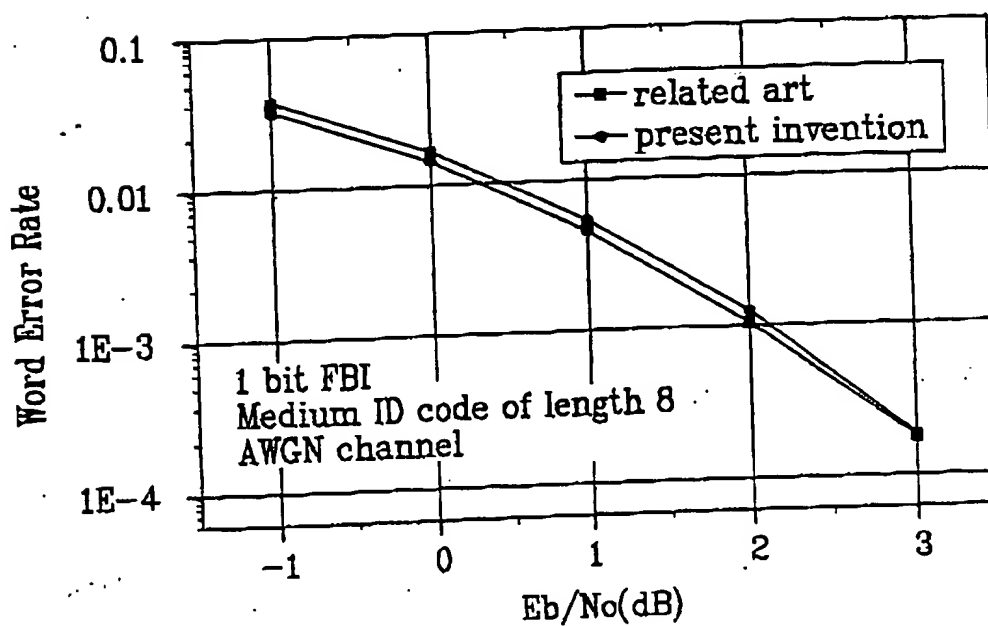


FIG. 4C

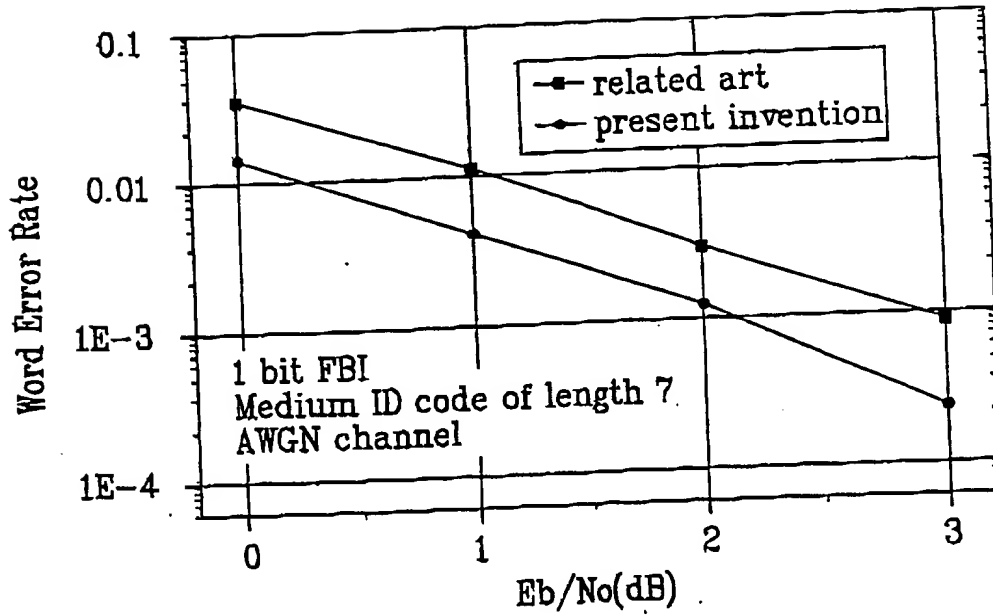


FIG. 4D

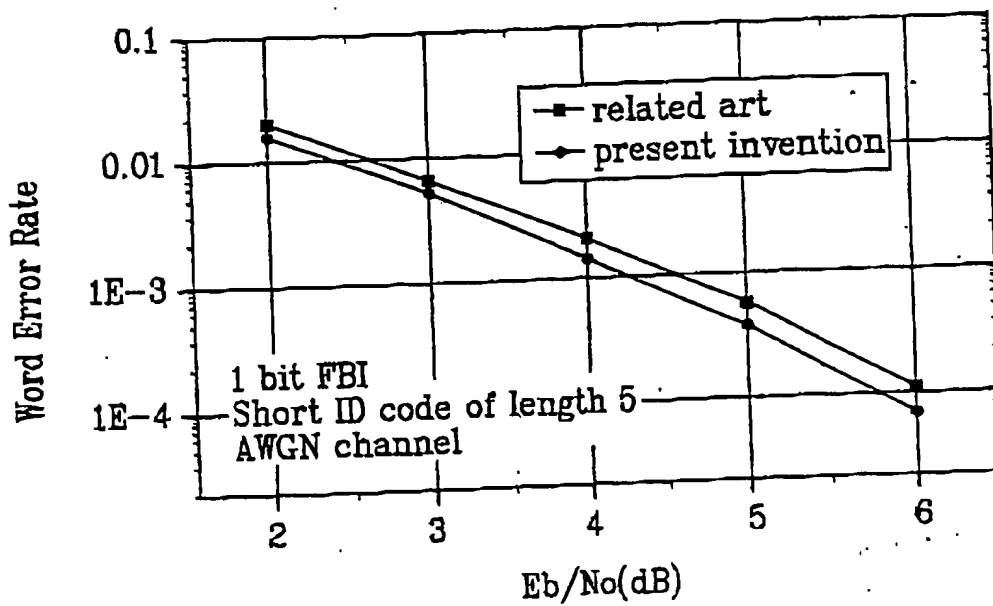


FIG. 5A

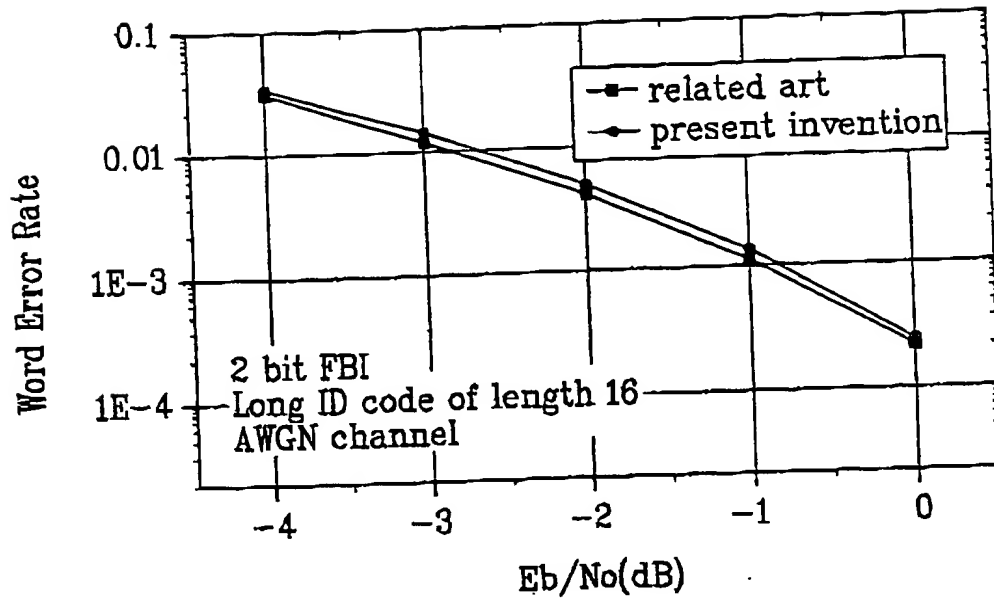


FIG. 5B

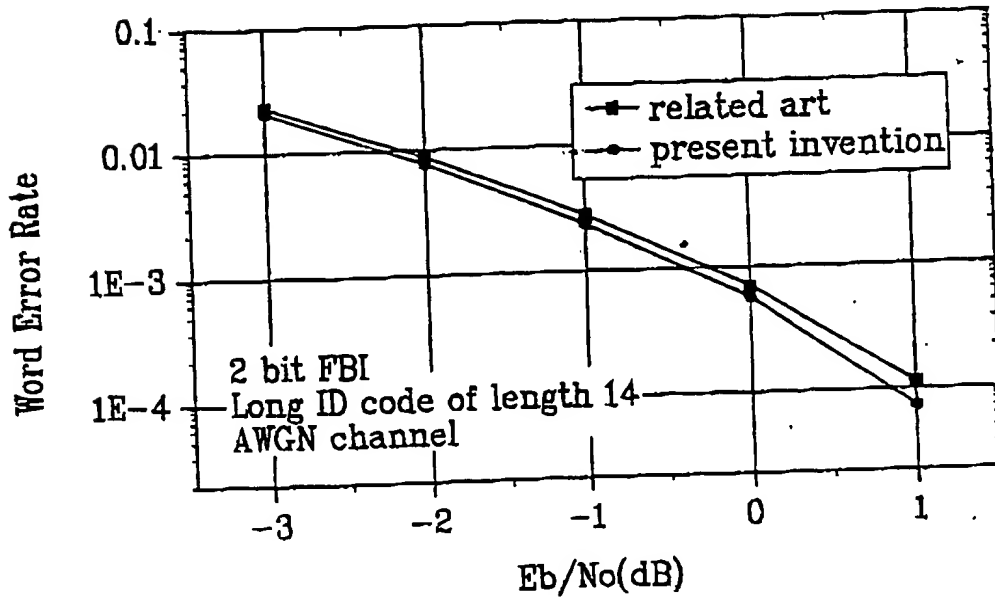


FIG. 5C

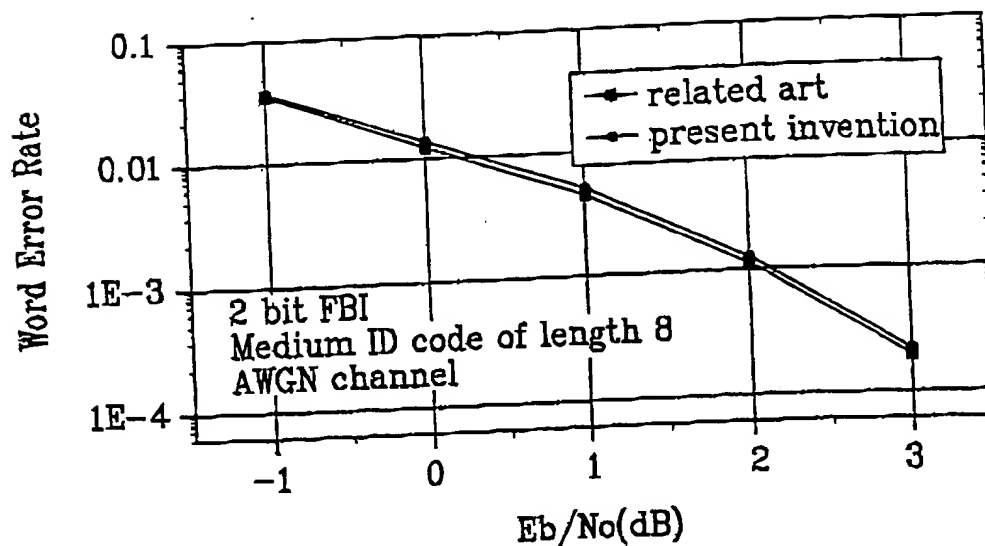


FIG. 5D

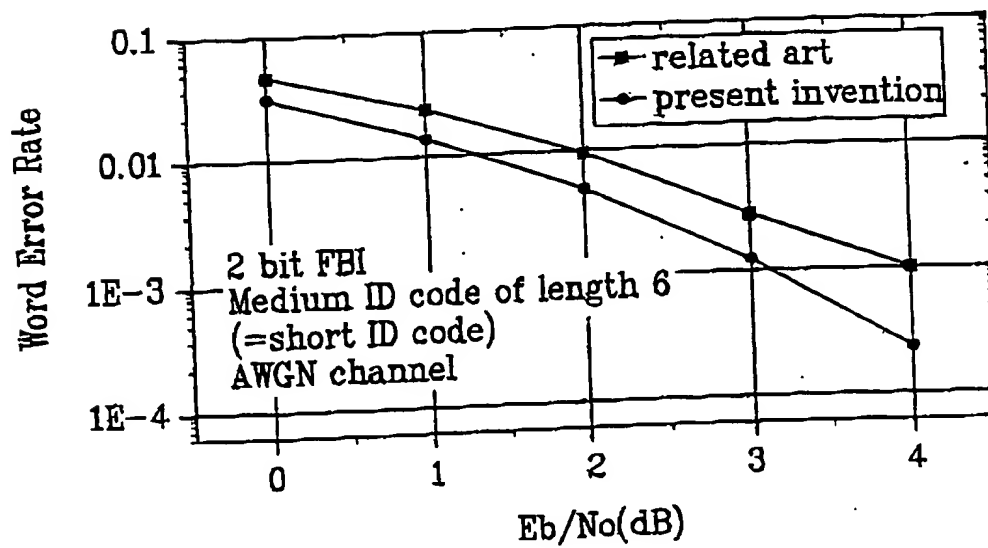


FIG. 6A

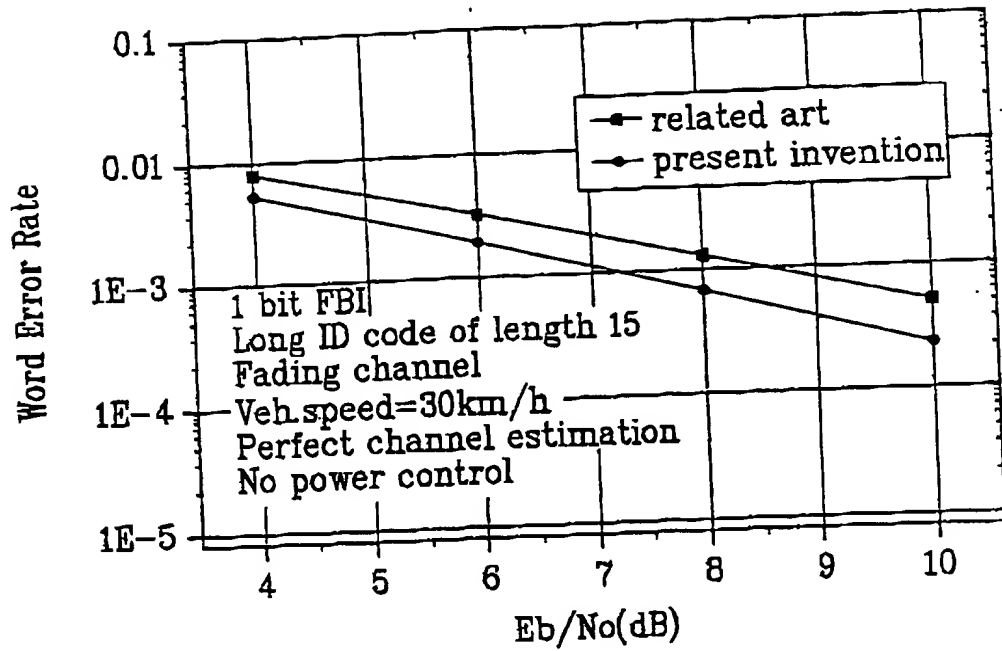
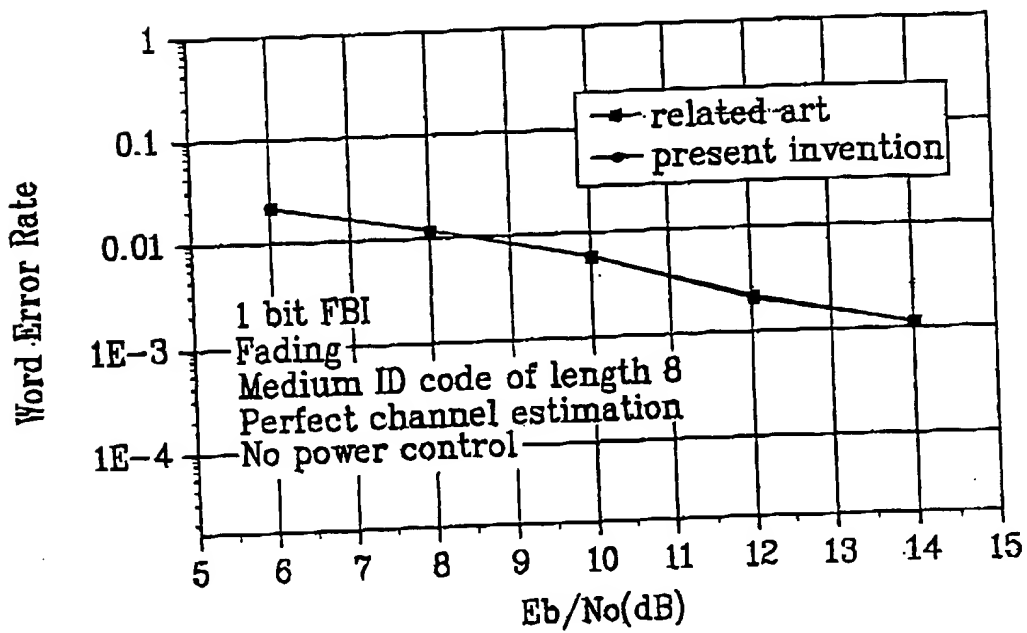


FIG. 6B



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FIG. 6C

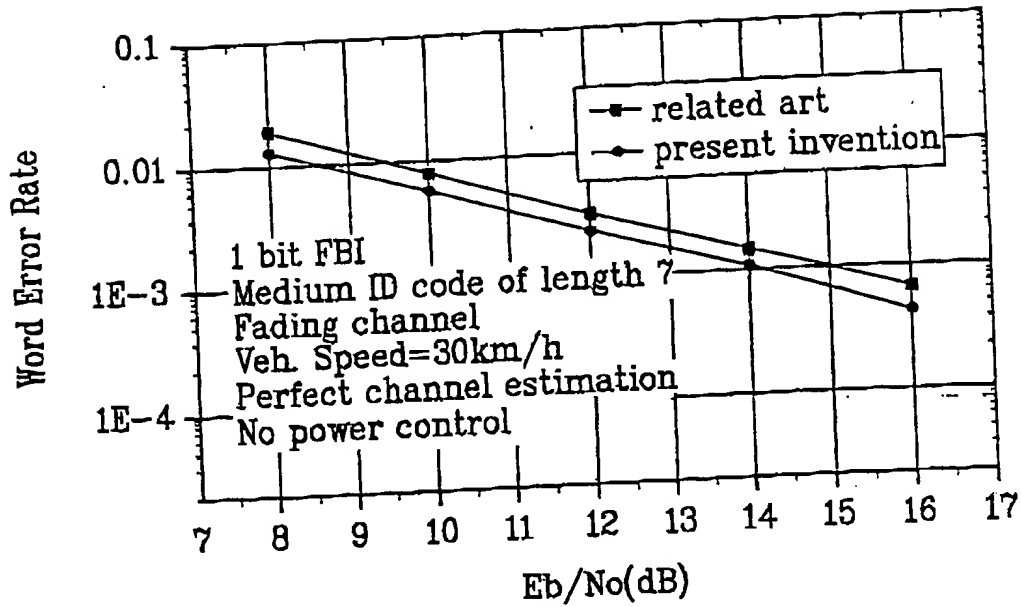


FIG. 6D

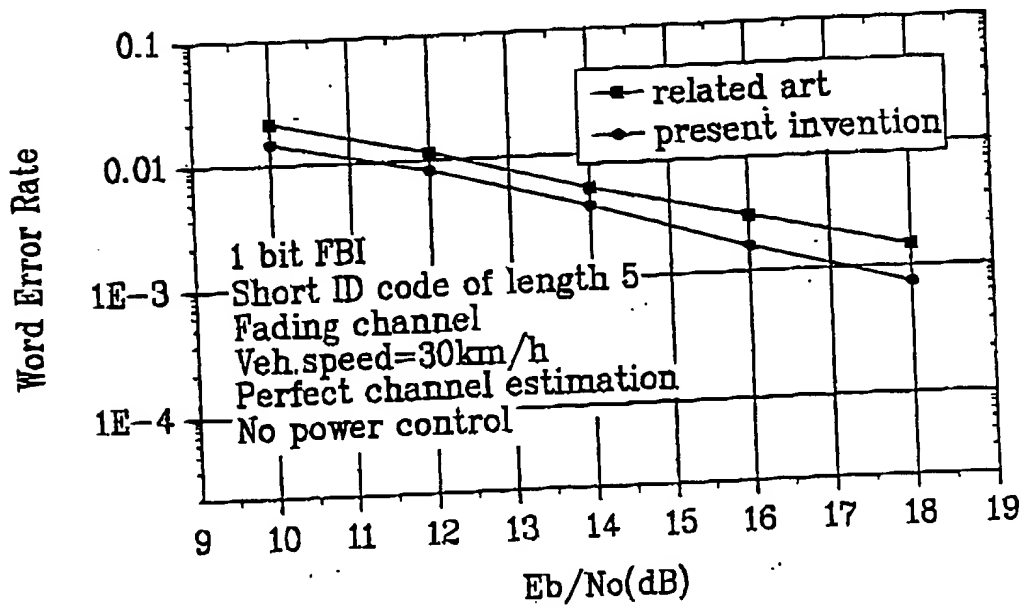


FIG. 7A

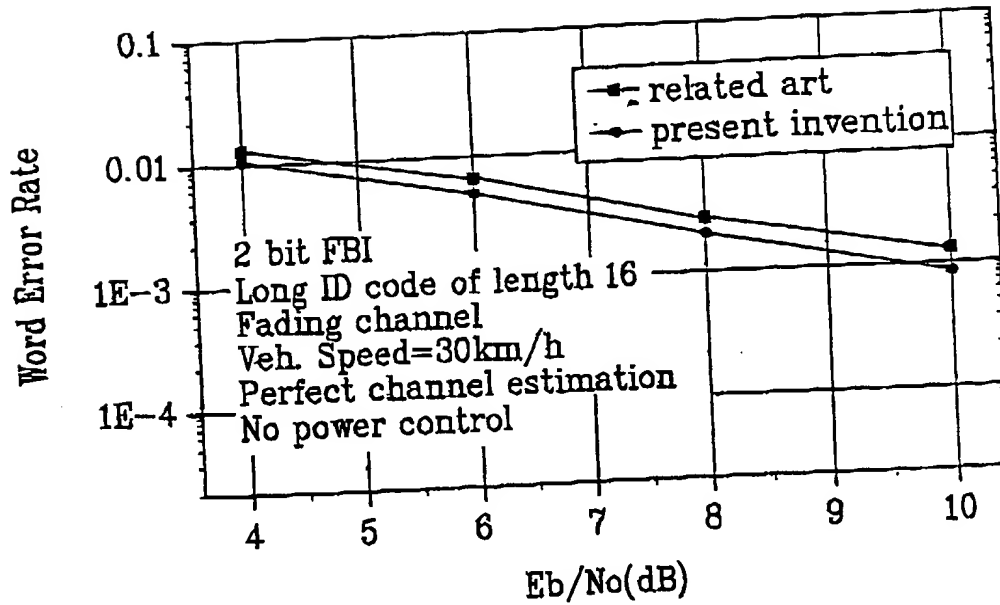


FIG. 7B

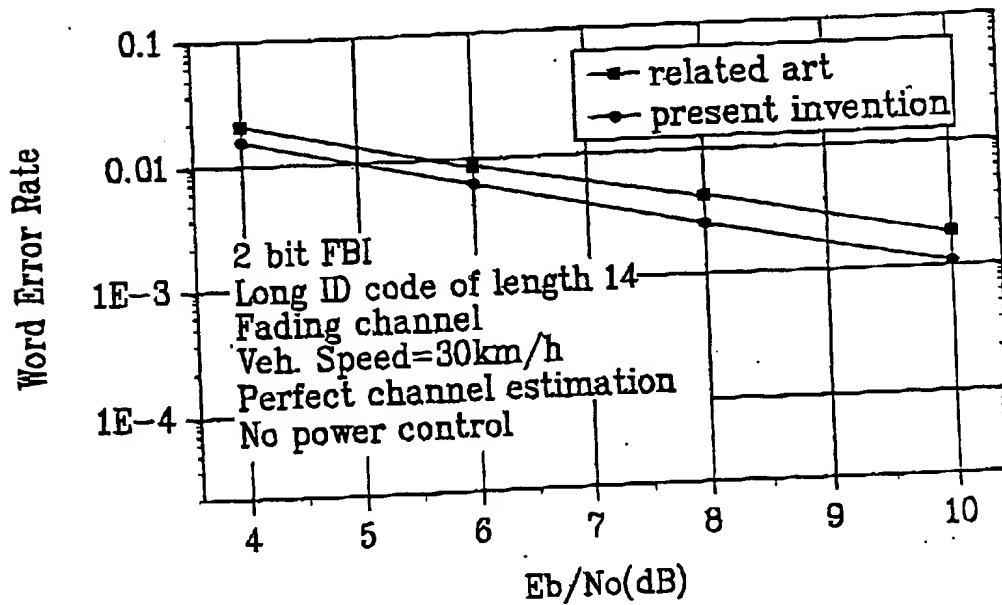


FIG. 7C

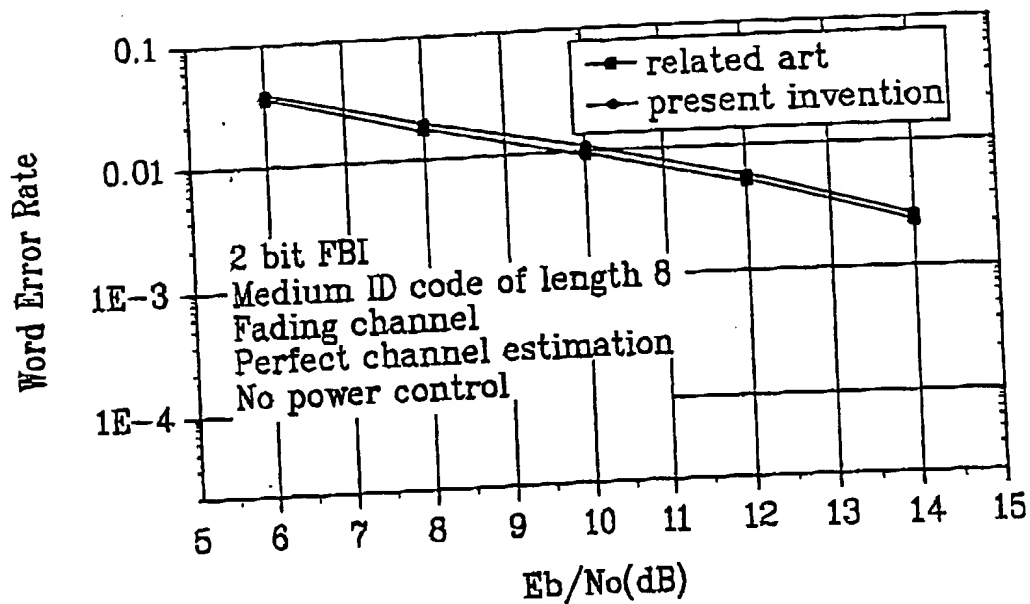


FIG. 7D

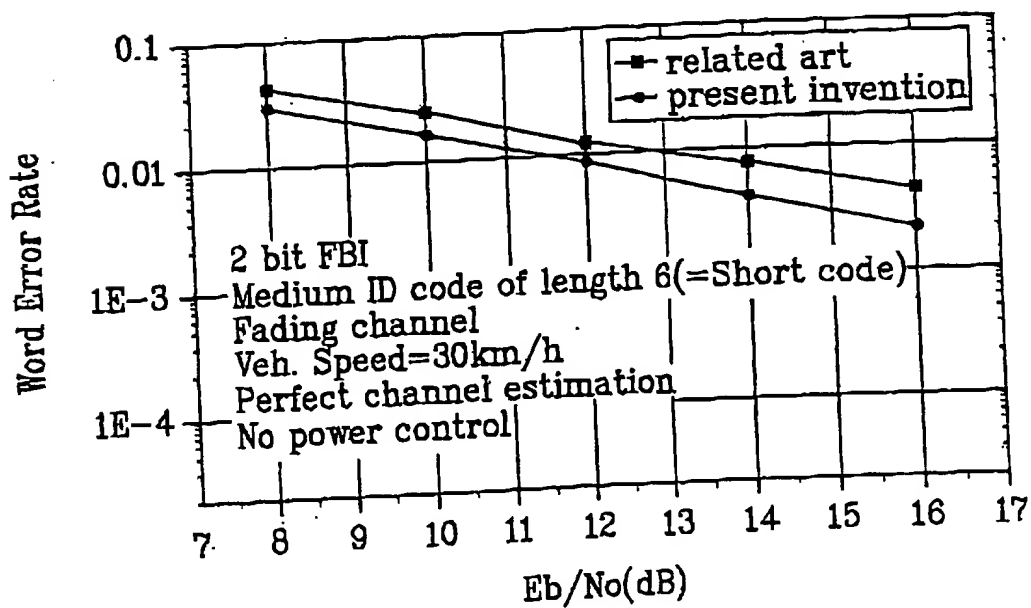


FIG. 8A

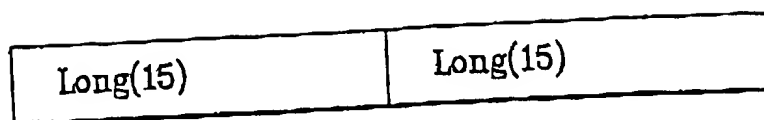


FIG. 8B

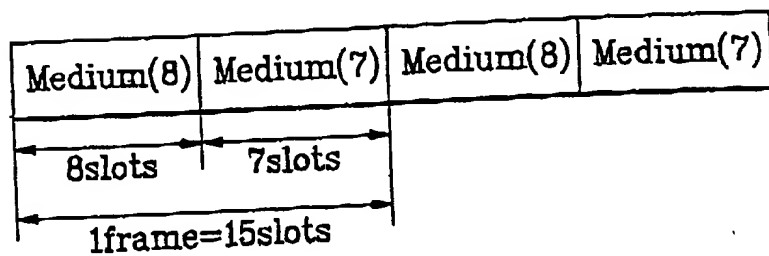


FIG. 8C

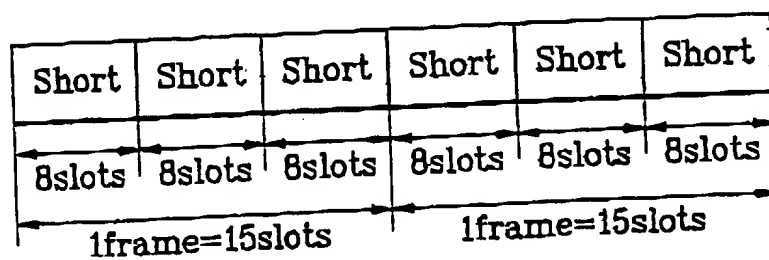


FIG. 9A

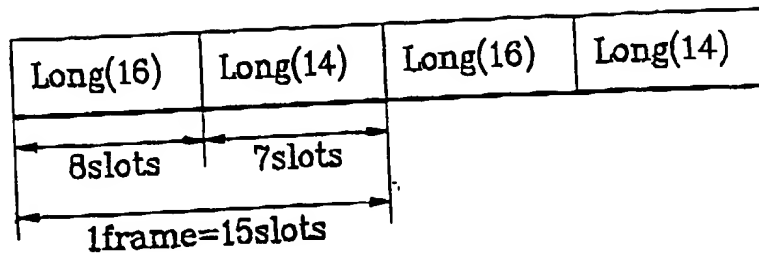


FIG. 9B

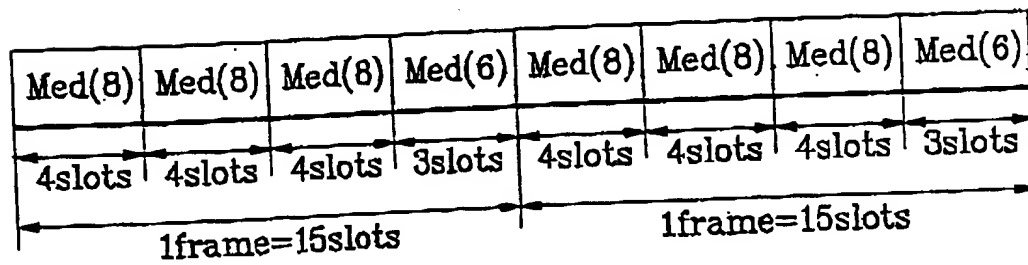


FIG. 9C

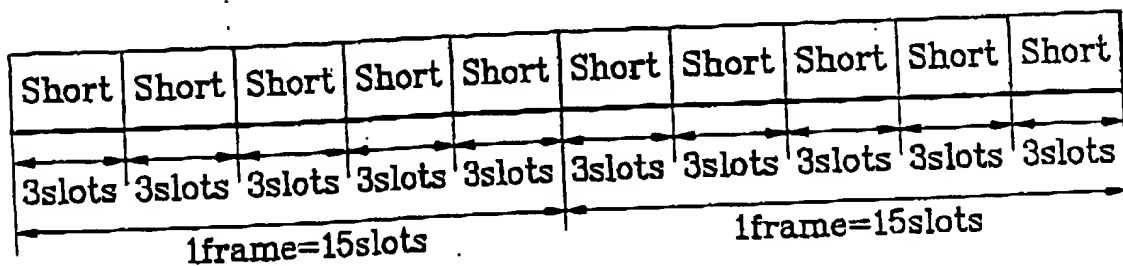


FIG.10A

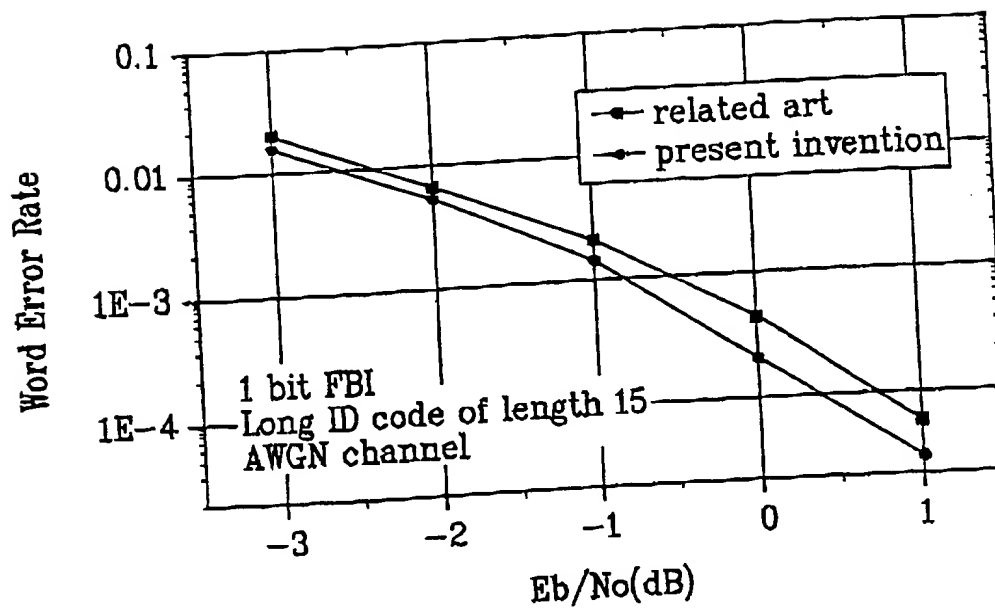


FIG.10B

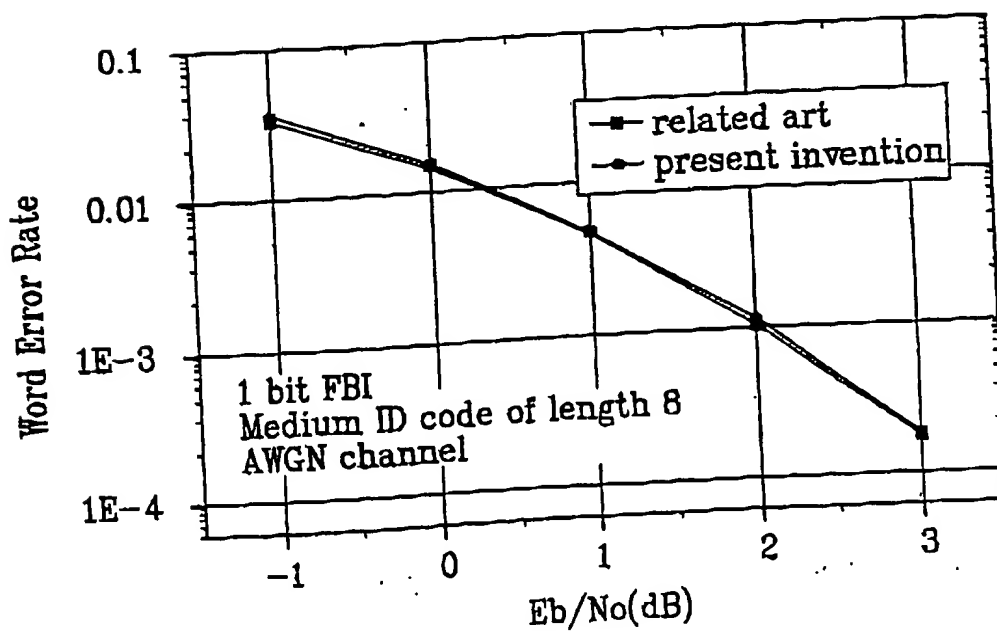


FIG.10C

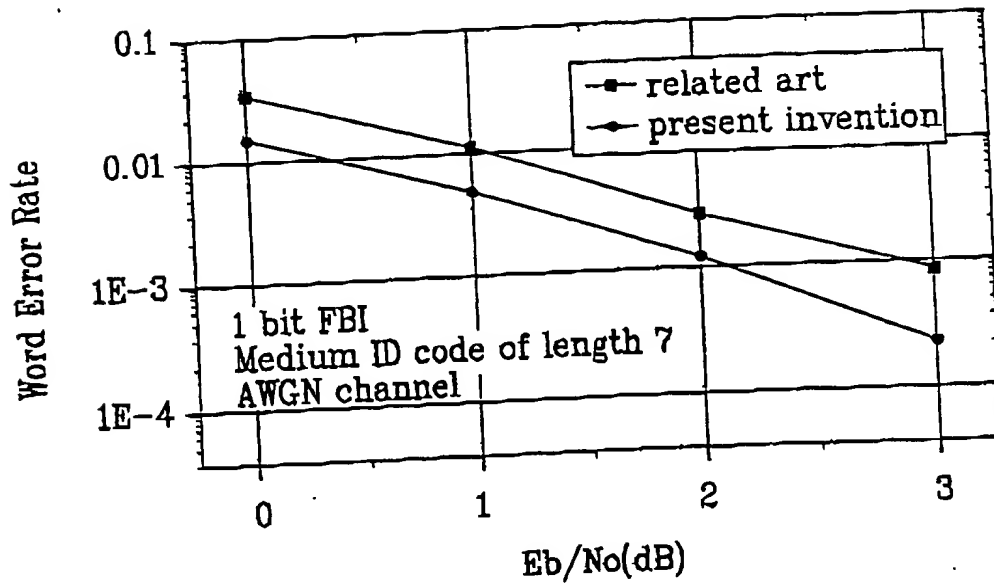


FIG.10D

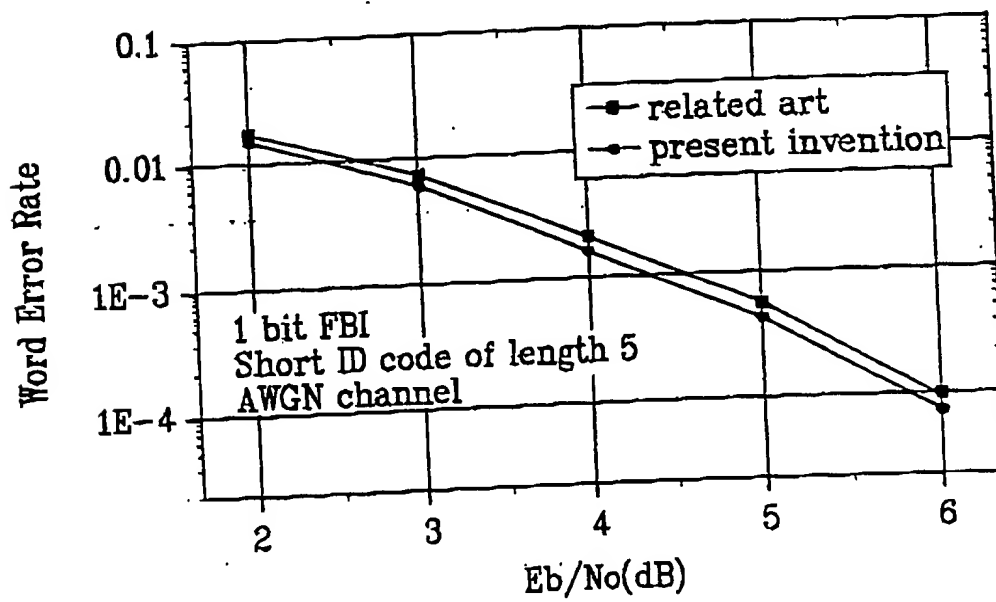


FIG.11A

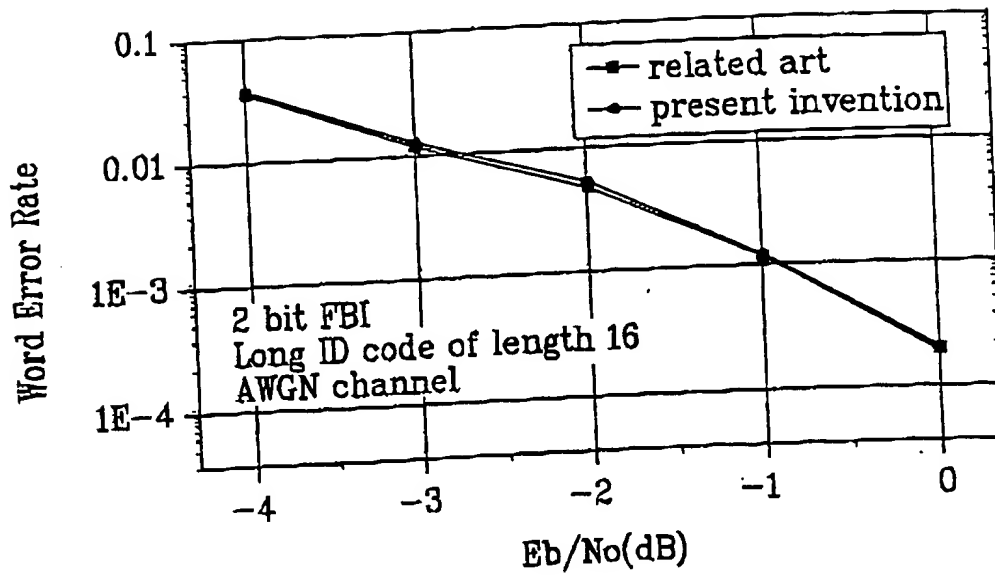


FIG.11B

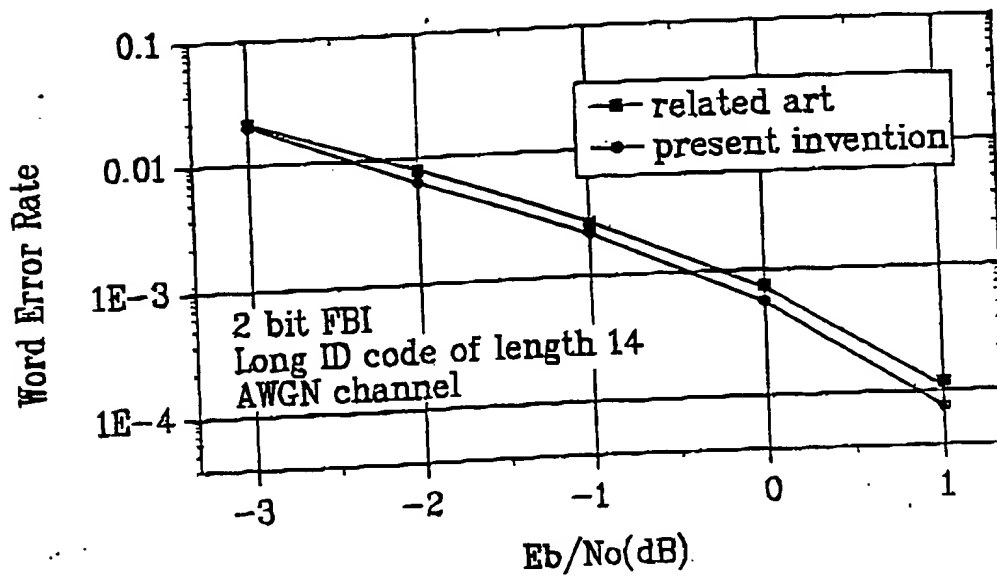


FIG.11C

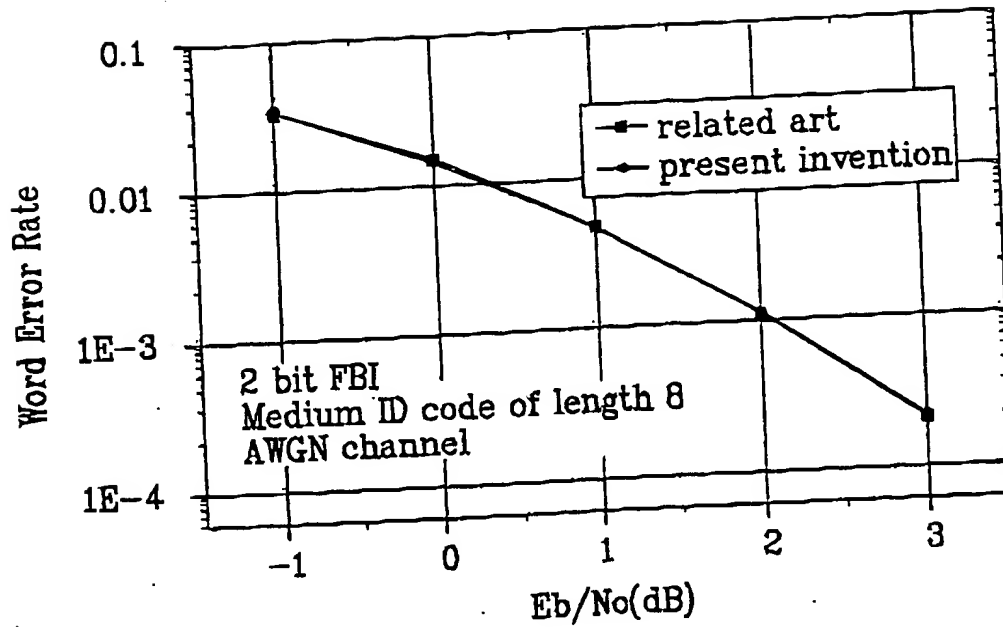


FIG.11D

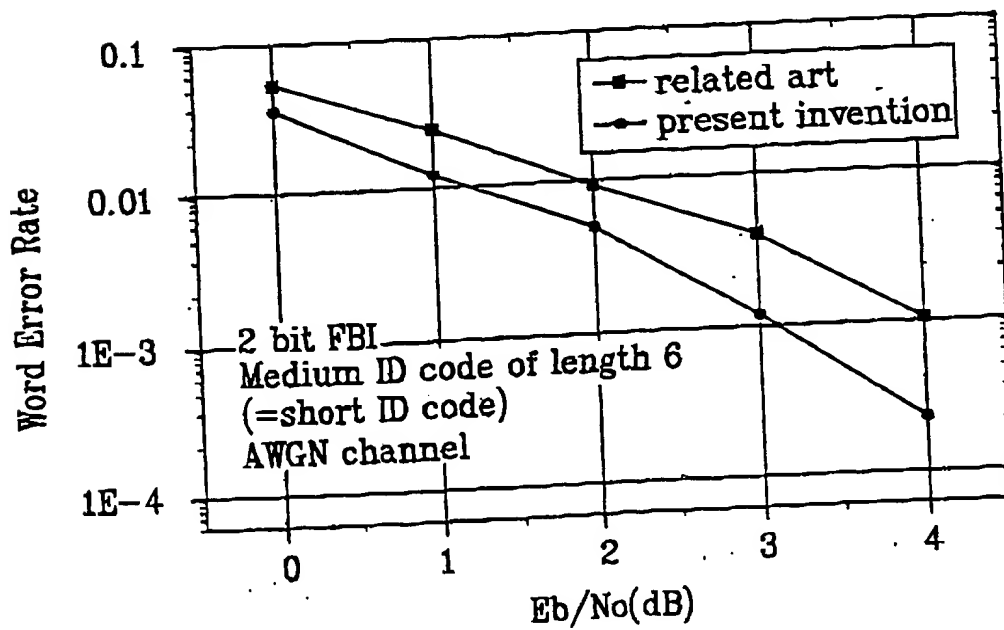


FIG.12A

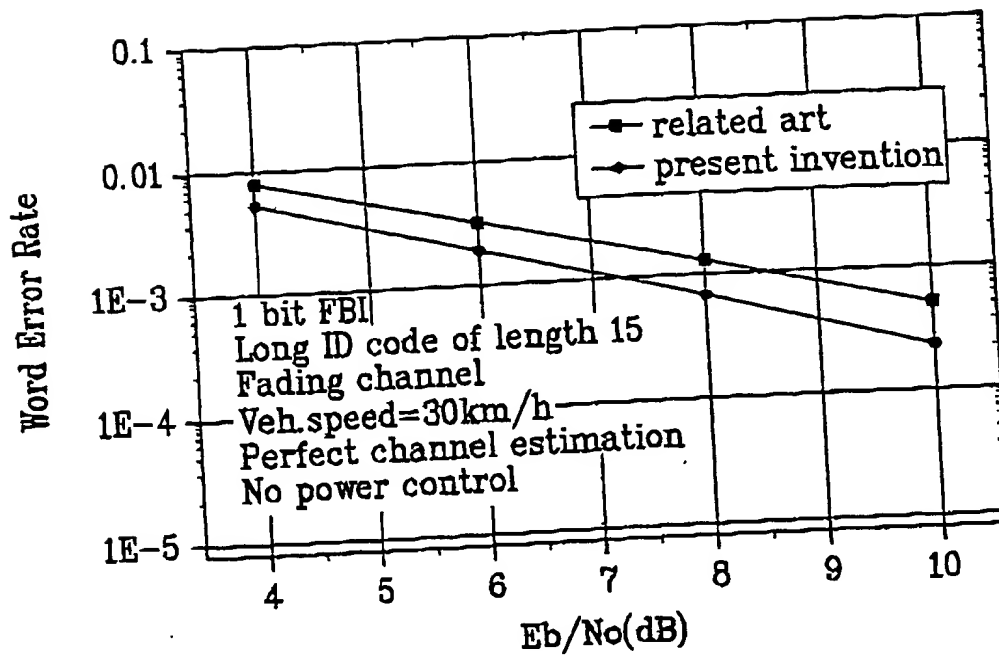


FIG.12B

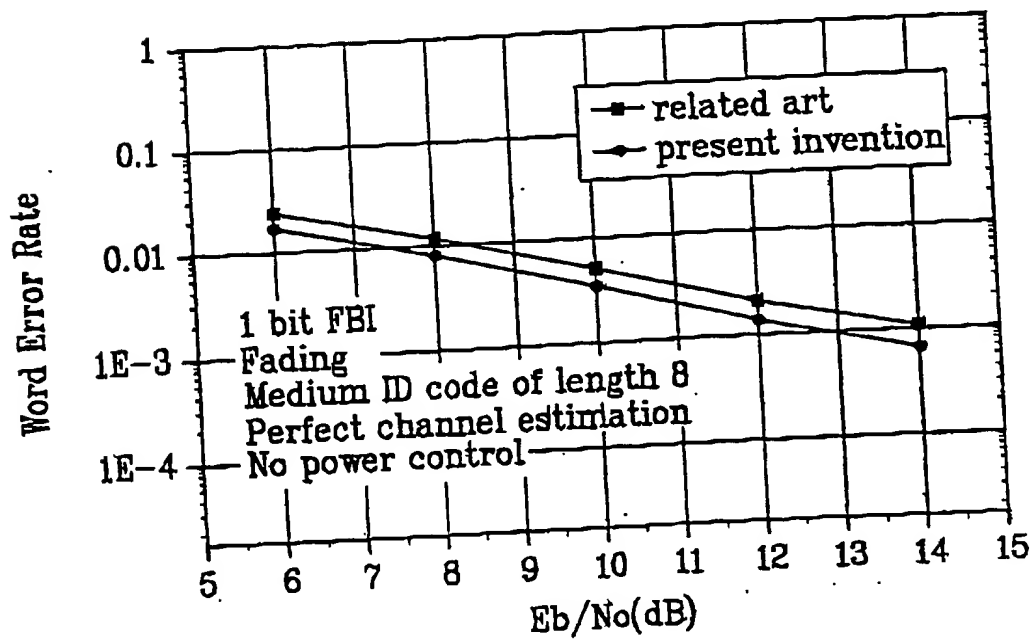


FIG.12C

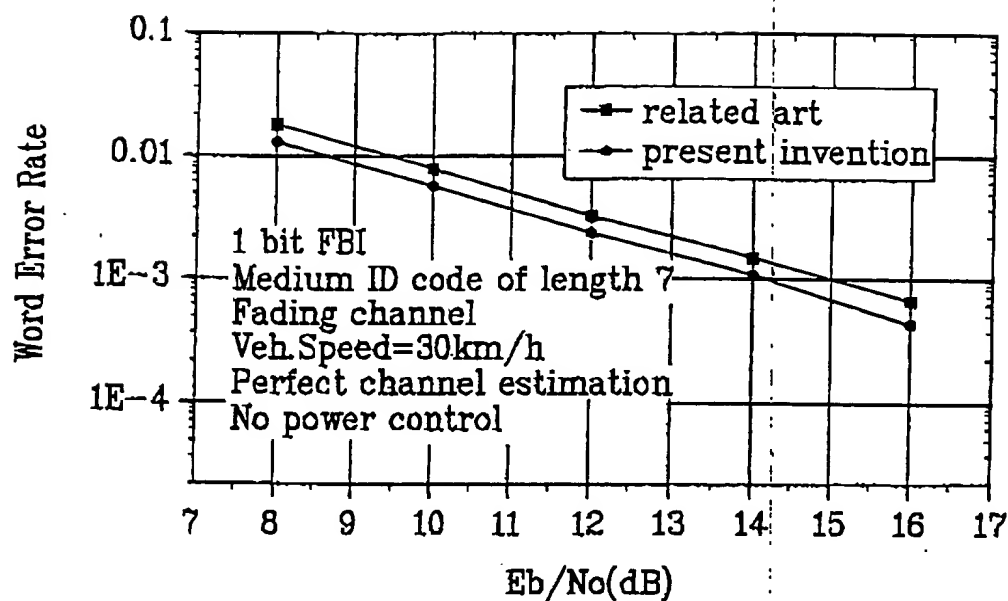


FIG.12D

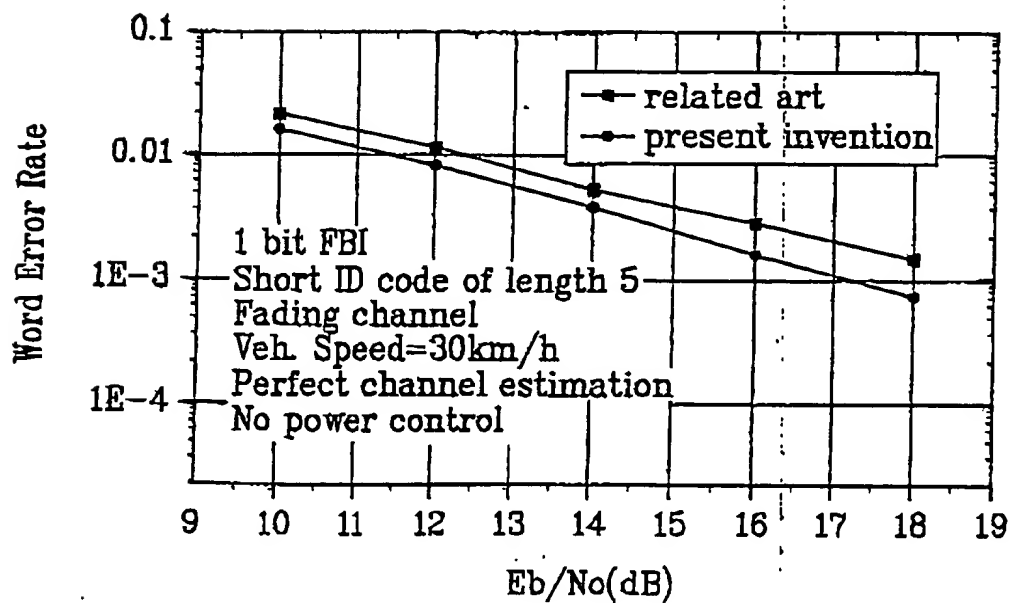


FIG.13A

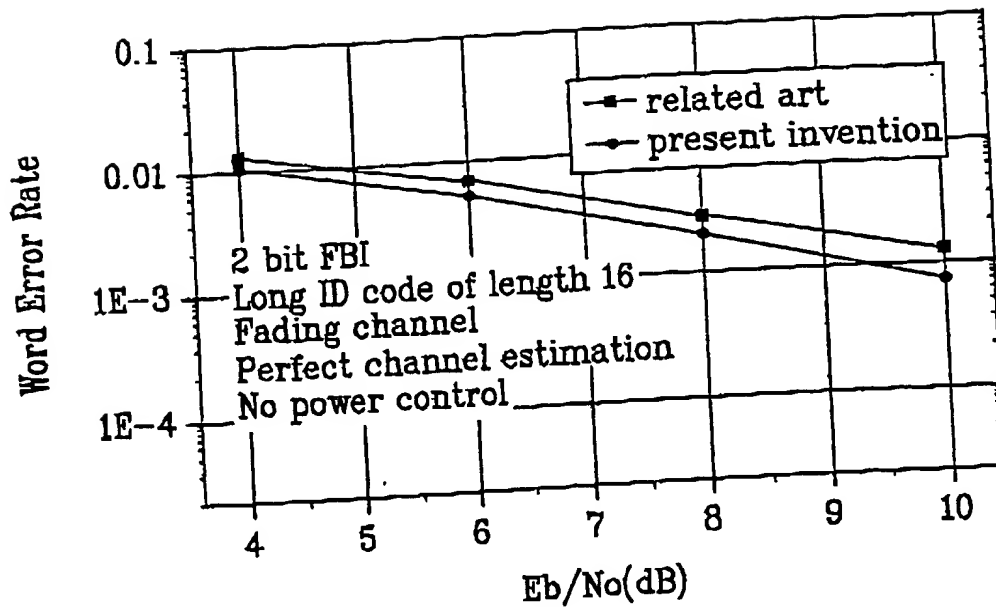


FIG.13B

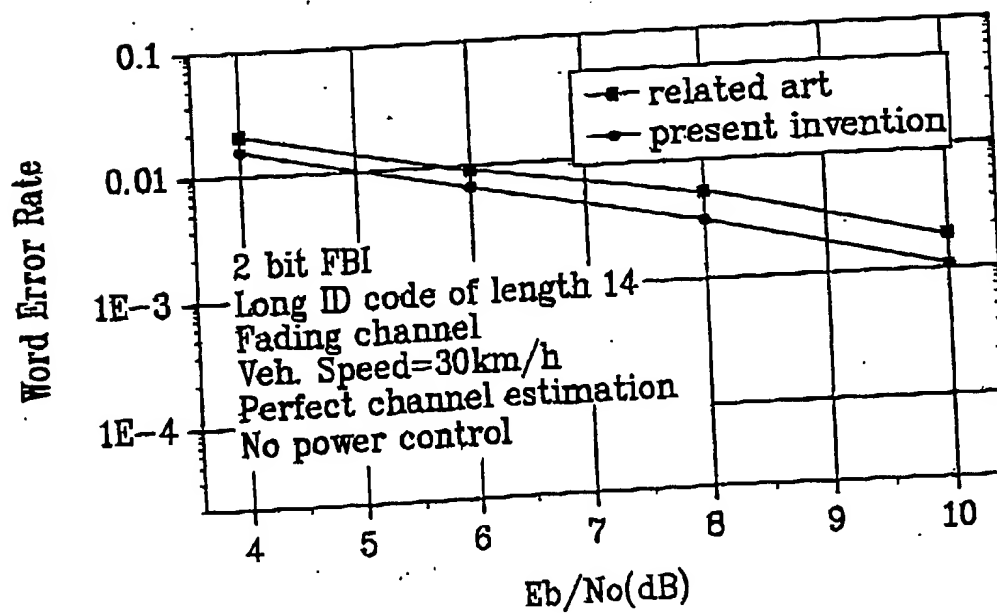


FIG.13C

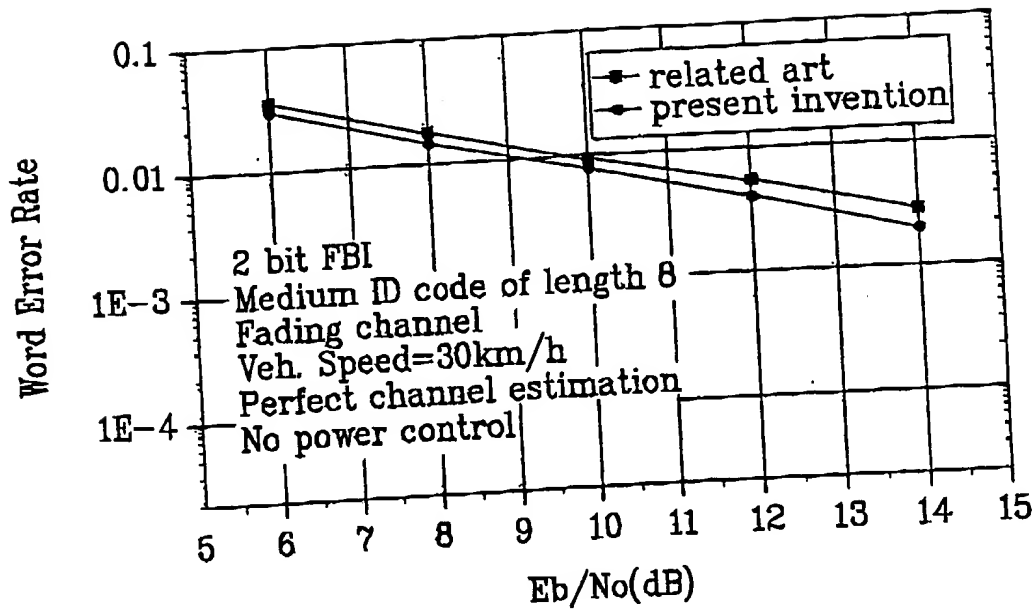


FIG.13D

